



## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/010297

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_ which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 2, 6, 8-26 as originally filed/furnished
- pages\* 1, 3-5, 7 received by this Authority on 20.05.2005
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- nos. 2-5, 7-10, 12-15 as originally filed/furnished
- nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- nos.\* 1, 6, 11 received by this Authority on 20.05.2005
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- sheets Fig. 1-21 as originally filed/furnished
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, nos. 16-24
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	<u>1-15</u>	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	<u>1-15</u>	NO
Industrial applicability (IA)	Claims	<u>1-15</u>	YES
	Claims		NO
2. Citations and explanations (Rule 70.7)			
Document 1: JP 62-99097 A (Fujikura Ltd.), 25 March 1987; page 5, upper right column, line 3 to lower left column, line 9; fig. 5			
Document 2: WO 02/16836 A1 (Sharp Corp.), 28 February 2002; page 11, line 15 to page 13, line 26, fig. 5			
Document 3: JP 6-185245 A (Mitsubishi Electric Corp.), 5 July 1994; paragraph [0057]-[0058] and fig. 4-5			
Document 4: Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 186429/1985 (Laid-open No. 93574/1987) (Fujikura Ltd.), 15 June 1987; page 3, line 15 to page 4, line 18, and fig. 1-2			
<p>The inventions set forth in claims 1, 2 and 4 do not involve an inventive step in the light of document 3 and document 1, cited in the international search report. A person skilled in the art could easily apply a pipe structure disclosed in document 1 in a device disclosed in document 3; and making the pipe diameter larger on the gas side is an option available at the discretion of a</p>			

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person skilled in the art.

The inventions set forth in claims 3 and 5 do not involve an inventive step in the light of document 3 and document 1, and document 2, cited in the international search report. A person skilled in the art could easily apply a device disclosed in document 3 and a pipe structure disclosed in document 1 in a cooling system for a refrigerator disclosed in document 2.

The inventions set forth in claims 6, 7 and 9 do not involve an inventive step in the light of document 3 and document 1, and document 4, cited in the international search report. A person skilled in the art could easily apply a heat extractor structure disclosed in document 4 in a device disclosed in document 3.

The inventions set forth in claims 8 and 10 do not involve an inventive step in the light of documents 1-4. A person skilled in the art could easily apply a device disclosed in document 3, a pipe structure disclosed in document 1 and a heat extractor disclosed in document 4 in a cooling system for a refrigerator disclosed in document 2.

The inventions set forth in claims 11, 12 and 14 do not involve an inventive step in the light of document 3 and document 1, and document 4, cited in the international search report. A person skilled in the art could easily apply a heat extractor structure disclosed in document 4 in a device disclosed in document 3, and connect split evaporators.

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Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
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The inventions set forth in claims 13 and 15 do not involve an inventive step in the light of documents 1-4. A person skilled in the art could easily apply a device disclosed in document 3, a pipe structure disclosed in document 1 and a heat extractor structure disclosed in document 4 in a cooling system for a refrigerator disclosed in document 2.